



UNIVERSITA'
CAMPUS
BIO-MEDICO
DI ROMA



RECTOR'S DECREE
Academic Year 2021-2022
No. 317 of 09/09/2022

**PHD-AI.IT NATIONAL DOCTORATE IN ARTIFICIAL INTELLIGENCE
(HEALTH & LIFE SCIENCES) 38TH CYCLE**

ACADEMIC YEAR 2022-2023

SUPPLEMENT AND AMENDMENTS OF RECTORAL DECREE NO 279 OF 28/07/2022

The RECTOR

- Considering** Italian Law No. 240 of 30/12/2010, containing regulations regarding the organization of universities, academic staff and recruitment, as well as the mandate to the Government to promote the quality and efficiency of the university system;
- Considering** the Rector's Decree No. 196 of 30/05/2022, containing regulations on the subject of the research doctorates of Università Campus Bio-Medico di Roma, in implementation of the provisions of Italian Law No. 240/2010;
- Considering** the Rector's Decree No. 279 of 28/07/2022, with which the PhD-Ai.IT National Doctorate in Artificial Intelligence (Health and Life Science) - 38th cycle - was launched;
- Considering** the Rector's Decree No. 304 of 23/08/2022, rectifying Decree No 279 of 28/07/2022;
- Considering** that art. 9, paragraph 4, of the Rector's Decree n. 279 of July 28th, 2022, provides that the number of scholarship seats available may be increased if funding is available from other universities, public or private institutions, provided that their formalization occurs within 9th September 2022;
- Considering** the Rector's Decree No. 305 of 24/08/2022, of supplement and amendments of Decree No 279 of 28/07/2022;
- Considering** the Unique Project Code (CUP) associated with the al PhD AI (Health and Life Science) programs:

RESEARCH DOCTORATE COURSE	CUP (M4C1 - Inv. 3.4)	CUP (M4C1 - Inv. 4.1) Area: PNRR Research	CUP (M4C1 - Inv. 4.1) Area: Public Administration	CUP (M4C2 - Inv. 3.3)
PHD-AI.IT National Doctorate in Artificial Intelligence (Health & Life Sciences)	C87G22000530009	C87G22000510009	C87G22000650009	C87G22000520009



RECTOR'S DECREE
Academic Year 2021-2022
No. 317 of 09/09/2022

- Considering** approval of competent authorities, relating to the financing of no. 7 additional National PhD scholarships in Artificial Intelligence (Health and Life Sciences);
- Considering** the opportunity of making such grants available for the PhD-Ai.IT National Doctorate in Artificial Intelligence (Health and Life Science) – 38th cycle, Academic Year 2022-2023;
- Considering** the need to integrate the call for bids;

HEREBY DECREES

Article 1
(Increase of scholarships)

The number of scholarships and seats relating to the National PhD course in Artificial Intelligence (Health and Life Sciences), 38th cycle referred to the call for bids stated in the foreword, is increased as indicated in **Annex A** to this Decree, which displays the updated number of scholarships.

Art. 2
(Dissemination of the call)

The present call is available on the following website: <https://www.unicampus.it/it/ucbm/bando-dottorato-nazionale-in-intelligenza-artificiale-area-salute-e-scienze-della-vita-xxxviii-ciclo-a-a-2022-2023>.

Rome, September 9th 2022

Chief Executive Officer and Director General
signed Dr. Andrea Rossi

The Rector
signed Prof. Raffaele Calabrò

Digitally signed document



UNIVERSITA'
CAMPUS
BIO-MEDICO
DI ROMA



ANNEX A

R.D. no. 317 dated 9th September 2022

PhD Course Coordinator: Prof. Eugenio Guglielmelli

Duration: 3 anni

Positions supported by scholarships: 43

Positions with scholarship supported by the University and other Institutions	Topic	Location of the activities
5 co-supported by Università Campus Bio-Medico di Roma and FFO CNR	Artificial Intelligence – Health and Life sciences	Rome
1 co-supported by CNR on IEIIT funds and by CNR on FOE funds	Telemonitoring of chronic diseases and frail groups, based on internet of things devices and artificial intelligence (TANIA)	Milan
1 co-supported by CNR on ISOF funds and by CNR on FOE funds	Development and application of Deep Learning algorithms for the characterisation and functionalisation of complex biosensor arrays	Bologna
1 co-supported by CNR on ISTC funds and by CNR on FOE funds	Study of systems based on migratable Artificial Intelligence that adapt content and form according to the user's affective-cognitive state and different socio-technical contexts of assistance.	Rome
1 co-supported by CNR on INO funds and by CNR on FOE funds	AI-enhanced diamond-based quantum biosensing	Florence
1 co-supported by CNR on ISPC funds and by CNR on FOE funds	BCI for interactive applications targeting Heritage	Rome
1 co-supported by CNR on IBIOM funds and by CNR on FOE funds	Development of predictive models (based on machine learning and deep learning) to integrate omics data to identify biomarkers for human diseases following precision medicine canons.	Arcavacata di Rende (CS)
1 supported by CNR on ISTC funds	Cognitive architecture for personalized and continuous Human-Robot interaction	Rome
1 supported by CNR on ICAR funds	Innovative AI-based computational models for the design and/or identification of non-coding RNA molecules as new generation personalized therapeutic agents	Naples
3 co-supported by SISSA Scuola Internazionale Superiore di Studi Avanzati and by Università di Pisa on FFO funds	Artificial Intelligence – Health and Life Sciences	Trieste



1 co-supported by Università degli Studi “Aldo Moro” di Bari and by Università di Pisa on FFO funds	Behavioral and non-invasive Biometrics for health, disease and wellbeing: from illness prediction to monitoring and rehabilitation	Bari
1 co-supported by Università degli Studi di Torino and by Università di Pisa on FFO funds	Bridging the gap between omics and brain imaging with machine learning	Turin
1 co-supported by Università del Piemonte Orientale and by Università di Pisa on FFO funds	Machine and deep learning for multi-omics analysis in autoimmune and allergic diseases	Vercelli and related offices
1 co-supported by Università degli Studi della Tuscia and by Università di Pisa on FFO funds	Analysis, design and implementation of machine learning techniques for the human behaviour assessment	Viterbo
1 supported by C.O.T. Cure Ortopediche Traumatologiche SpA	Motor and cognitive rehabilitation of patients suffering from autism spectrum disorders by using robots running AI algorithms	Messina
1 supported by Università degli Studi della Campania “Luigi Vanvitelli”	Cloud-Edge Intelligence	Caserta and related offices
1 supported by Università degli Studi di Genova	Computational methods for data analysis in neurosciences and oncology	Genoa
1 supported by Humanitas University	Artificial Intelligence – Health and Life Sciences	Pieve Emanuele (Milan)
1 supported by Università degli Studi “Aldo Moro” di Bari	Innovative approaches to link genetics with the neurophysiology and behavioral readouts of psychiatric disorders	Bari
1 co-supported by Università degli Studi di Messina and Università di Pisa on FFO funds	Artificial Intelligence for Digital Diagnostics	Messina
1 co-supported by Università degli Studi del Molise and by CNR on FOE funds	Artificial Intelligence – Health and Life Sciences	Campobasso and related offices
1 co-supported by LUISS Guido Carli and by CNR on FOE funds	Machine learning algorithms	Roma
1 supported by Università degli Studi di Roma “Tor Vergata”	Neuromorphic computing and reinforcement learning for genetically targeted modulation and enhancement of brain activity through novel nanomaterials	Roma
1 supported by Università degli Studi “G. D’Annunzio” Chieti - Pescara	Machine learning material identification for finite element bio mechanical analysis of soft tissues	Chieti - Pescara
1 supported by Università del Piemonte Orientale	Artificial Intelligence and Machine Learning methodologies for omics analysis in Autoimmune Diseases	Vercelli and related offices
2 co-supported by SISSA Scuola Internazionale Superiore di Studi Avanzati e dall’Università di Pisa on FFO funds*1	Artificial Intelligence – Health and Life Sciences	Related Offices



Positions with scholarship supported PNRR funds – ex DM 351/2022* ² :	Topic	Location of the activities
2 supported by Università Campus Bio-Medico di Roma <u>area: PNRR Research</u>	Artificial Intelligence – Health and Life Sciences	Rome , spending study and research periods abroad from a minimum of six (6) months to a maximum of eighteen (18) months
2 supported by Università di Pisa <u>area: PNRR Research</u>	Artificial Intelligence – Health and Life sciences	Catania , spending study and research periods abroad from a minimum of six (6) months to a maximum of eighteen (18) months Pavia , spending study and research periods abroad from a minimum of six (6) months to a maximum of eighteen (18) months
1 supported by Università del Piemonte Orientale <u>Area: Digital and environmental transitions</u>	Artificial Intelligence – Health and Life Sciences	Vercelli and related offices , spending study and research periods in industry or research centres from a minimum of six (6) months to a maximum of twelve (12) months and study and research periods abroad from a minimum of six (6) months to a maximum of eighteen (18) months.
1 supported by Politecnico di Milano <u>area: PNRR Research</u>	ML/AI methods for cerebrovascular flow dynamics in age-related neurodegeneration	Milan , spending study and research periods abroad from a minimum of six (6) months to a maximum of eighteen (18) months.
1 Università degli studi di Roma "Tor Vergata" <u>Area Public Administration</u>	Human-in-the-loop Artificial Intelligence for Medical Applications	Roma spending study and research periods abroad from a minimum of six (6) months and provide periods of study and research in in industry or research centres or Public Administration from a minimum of six (6) months to a maximum of twelve (12) months.



Positions with scholarship supported PNRR funds – ex DM 352/2022* ² :	Topic	Locations of the activities
1 co-supported by C.O.T. Cure Ortopediche Traumatologiche SpA	Generative approaches and image-to-image translation techniques to support the diagnosis and to predict the prognosis in medical imaging	Rome , with a period at COT headquarter in Messina for 18 months, spending study and research periods abroad from a minimum of six (6) months to a maximum of eighteen (18) months
1 co-supported by Mediavoice	Speaky Internet: multimodal deep learning to support visually impaired people to surf the web	Rome , with a period at Mediavoice for a minimum of six (6) months to a maximum of twelve (12) months, spending study and research periods abroad from a minimum of six (6) months to a maximum of eighteen (18) months
1 Università degli Studi di Salerno and co-supported by Engineering Ingegneria Informatica SpA	Artificial Intelligence – Health and Life Sciences	Fisciano (SA) and related offices Engineering Ingegneria Informatica SpA for a minimum of six (6) months to a maximum of twelve (12) months, and spending study and research periods abroad from a minimum of six (6) months to a maximum of eighteen (18) months

*¹Scholarships subject to the success of ministerial financing.

*² For further information, please refer to Article 9, Paragraph 5, and subject to Article 11, Paragraph 3 of the call.